

Artificial Intelligence in advancing Biology and Genetics

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Effectives: 20

Language: English

Prerequisites:

none

Where?

Université Paris Cité
Moulin Campus

When?

Evaluation:

Oral exam on friday

Questions:

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Number ECTS: 3

Total numbers of hours:
30h

Teaching format:

lectures, practical,
conferences

Teaching objectives

- Understand the basic principles of AI
- Explore the contribution of AI tools in fundamental research in biology, genetics and genomics.
- Examine the applications of AI in industry and clinical settings.

Teaching outline

- Definition of AI and its relevance to biological sciences.
- Overview of machine learning, deep learning, and neural networks in biological contexts.

AI and Protein Folding Simulation

Role of AI in enhancing image quality and identifying biological patterns.

AI in Genetics and Genomics

AI in clinics

Ethical considerations and challenges